

**ABSTRACT OF THE DISCLOSURE**  
**FREQUENCY ANALYSIS**

5     An apparatus for frequency content separating an input signal, said apparatus  
comprising a plurality of frequency splitting stages, each stage including one or more  
up-converter and down-converter pairs, an up-converter and down-converter pair  
serving to receive a complex input signal representing an input bandwidth and to  
output a first complex output signal representing an upper portion of said input  
bandwidth and a second complex output signal representing a lower portion of said  
10   input bandwidth, said first portion and said second portion being contiguous and  
together representing said input bandwidth portion.

[Figure 6]

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